	Application No.	Applicant(s)	
	10/789,172	PATIL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication and claims being allowable, PROSECUTION ON THE MERITS erewith (or previously mailed), a Notice of Allowance (PTOLIOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	S IS (OR REMAINS) CLOSED in -85) or other appropriate common T RIGHTS. This application is s .313 and MPEP 1308.	n this application. If not inc unication will be mailed in c	luded lue course. THIS
•	<u>штет.</u> .		
. The allowed claim(s) is/are <u>19 and 20</u> .			
. The drawings filed on 27 February 2004 are accepted I	by the Examiner.		
Acknowledgment is made of a claim for foreign priorit a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents h 2. ☐ Certified copies of the priority documents h	nave been received.		
Copies of the certified copies of the priority			lication from the
International Bureau (PCT Rule 17.2(a)).		3 11	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	TE" of this communication to file DNMENT of this application.	a reply complying with the	requirements
. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which	ubmitted. Note the attached EXA gives reason(s) why the oath or	AMINER'S AMENDMENT of declaration is deficient.	or NOTICE OF
. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.		
(a) ☐ including changes required by the Notice of Draftsp	person's Patent Drawing Reviev	v (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	·		
(b) ☐ including changes required by the attached Examir Paper No./Mail Date	ner's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on the in the header according to 37 CF	ne drawings in the front (not R 1.121(d).	the back) of
. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMENT	eposit of BIOLOGICAL MATE NT FOR THE DEPOSIT OF BIO	ERIAL must be submitte DLOGICAL MATERIAL.	d. Note the
ttachment(s) ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	formal Patent Application (I	PTO-152)
☐ Notice of Draftperson's Patent Drawing Review (PTQ-94		ummary (PTO-413),	
_		Mail Date Amendment/Comment	
☐ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date			•
 ☐ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material 	sit 8. 🛭 Examiner's	Statement of Reasons for	Allowance

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DETAILED ACTION

- 1. This application is a Divisional of US Application Serial Number 10/228,755 filed August 27, 2002.
- 2. This Office Action is in response to the Preliminary Amendment filed February 27, 2004. Claims 1-18 were canceled and claims 19-20 are now pending.

Allowable Subject Matter

- 3. Claims 19-20 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:
 The present claims are allowable over the closest references: Drent (US 4,804,738),
 Drent (EP 0 264 159), Tybus et al. (US 3,929,700), and Case et al. (US 5,278,236).

The present invention relates to a PVC resin composition composition comprising

(1)	Polyvinyl chloride		
(2)	Plasticizer	 (i) a geminally disubstituted olefin-carbon monoxide-ethylene polymer or (ii) a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, wherein X = free radical polymerizable monomer, or (iii) mixtures of (i) and (ii) 	

(summary of claim 19)

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<u>Drent</u>'738 discloses a linear alternating terpolymer of carbon monoxide, ethylene, and a secondary ethylenically unsaturated hydrocarbon, the secondary ethylenically unsaturated hydrocarbon being prferred to be isobutylene (abstract; col. 3, lines 67-68). However, Drent'738 does not teach or fairly suggest a PVC resin composition comprising a geminally disubstituted olefin-carbon monoxide-ethylene polymer, a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, or a mixture of (i) and (ii) as a plasticizer.

<u>Drent</u>'159 disclose a linear terpolymer of carbon monoxide with ethene and with one or more other aolefinically unsaturated hydrocarbon in the general formula of CH₂=C(R₆)(CHR₇R₈) (claim 1). However, Drent'159 does not teach or fairly suggest a PVC resin composition comprising a geminally disubstituted olefin-carbon monoxide-ethylene polymer, a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, or a mixture of (i) and (ii) as a plasticizer.

Tybus et al. disclose a polyvinyl chloride composition comprising polyvinyl chloride, a plasticizer, an impact-modifier, a processing aid, and a lubricant, wherein the plasticizer is a phthalate; processing aid is acrylic-type; lubricant is glyceride, citrate, or carboxylic acid (claims 1 and 4). Thus, Tybus et al. does not teach or fairly suggest a PVC resin composition comprising a geminally disubstituted olefin-carbon monoxide-ethylene polymer, a geminally disubstituted olefin-carbon monoxide-ethylene-X polymer, or a mixture of (i) and (ii) as a plasticizer.

<u>Case et al.</u> disclose a blend of E/X/Y terpolymer and polyvinyl chloride, wherein E = ethylene; $X = C_{2-10}$ n-alkyl acrylate; Y = CO or SO_2 (claim 1). Thus, Case et al. does not teach or

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fairly suggest a PVC resin composition comprising a geminally disubstituted olefin-carbon

monoxide-ethylene polymer, a geminally disubstituted olefin-carbon monoxide-ethylene-X

polymer, or a mixture of (i) and (ii) as a plasticizer.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

David Wu, can be reach on 571-272-1114.

Lycabi

Ling -Siu Choi

July 26, 2004